

ulations from foreign journals. One of these describes the manufacture of parchment paper. This is done by dipping common paper in strong sulphuric acid, diluting it, and then washing it with water. It is then allowed to cool. The paper is then instantly washed free of its acid, first in plenty of water, and then in a weak solution of ammonia. A hand of water on paper that will break with a weight of seven or eight pounds, will sustain a hundred pounds after being thus prepared and washed.

The remarkable thing, that the acid changes the character of the paper material into gelatine, somewhat similar to the substance of skin parchment. This inversion is not any more remarkable than the conversion of cotton into silk, or of human cuticle into leather, that form a skin like human cuticle, and is then cut and put in the open air. The paper thus gives an account of the parchment paper that has been discovered will lead to many useful purposes.

Another paper read by the Secretary treated largely of the value of various sea plants for food, and also of the value of various sea animals for medicinal purposes.

Winter Feeding Stock.—This important question has adopted for discussion at a former meeting. It is one of the most important that has been talked over, and the waste of food is almost or quite equal to its destruction—taking the whole country through. The most economical kind of food for stock, as well as the most judicious preparation of it for different classes of domestic animals, is just what every farmer should absolutely know—not guess.

Dr. W. then proceeded to illustrate upon the black-

ere woody fibre is too great for the nutritious material. Although cutting or chafing woody fibre may enable animals to eat it, it does not make it nutritious, and however necessary a small amount may be to mix with food, it may be given in too large quantities. I thought some of the philosophical studies connected with this subject are very curious, as well as useful.

He illustrated a case of a bullock that had swallowed a tablefork, the tines of which came out through the side and remained fast, the handle having become encased with a bony substance. He then illustrated a case of a man who had swallowed a tablefork, the tines of which came out through the side and remained fast, the handle having become encased with a bony substance. He then illustrated a case of a man who had swallowed a tablefork, the tines of which came out through the side and remained fast, the handle having become encased with a bony substance.

SOLOMON ROBINSON—I only wish to enter my protest against the expenditure of money for mills to grind

also, and all time to convert them into meat, as wolves can do. The only way to get the most out of straw is to feed it in a certain manner until burnt, and then to feed it in another manner until the straw or feed is no better than saw-dust, or any other woody fiber ground fine. It is well enough where straw or hay cannot be had to feed with the corn to waste corn; but as a general rule it won't pay, because they are not nutritious, and only waste the grain. The best way to get the most out of it by the simplicity of the best is to get the little meal of the grain in which the cobs are mixed, too much of the cobs portion may be eaten, and the health of the animal injured.

Prof. Naeff.—I wish Dr. Waterbury would explain a little more fully, considering woody fiber, and its effects upon the animal; and of what value is the woody fiber of straw; and whether he would prefer to separate the woody fiber from the valuable portion.

Dr. Waterbury.—I do not think it would be good policy to separate the woody fiber. In the butts of timbers and in cobs there is too much woody fiber, and all animals will reject them unless tempted by the addition of meal. I think the impact of the animal teeth on what is nutritious and what is not, is a great discovery. The French thought of this, and the great discovery was made by the French with Peppin's Digestor. But in a little while it was found that it was not a suitable food for man. It did not contain all the requisites.

Prof. Naeff.—It is manifest that there are a great many things that are not suitable for the support of the

corn certainly exist. Hence straw is valuable. No corn can be fed. But it depends upon the other portions of the feed whether it will be profitable.

W. L. LARSEN, of the University of Idaho, judges Peters. He was of opinion that 15 lb. of corn was equal to 25 lb. of nut. It should always be fed as a supplement in regular quantities. He thought a peck of salt to a ton was enough. The economy of cutting feed is undoubted with me. I cut my hay three inches long. A bushel weighs 51 lb., if heaped and lightly trodden. To each horse or cow, Judge Peters fed three bushels a day, at three feeds, in troughs or boxes. Over-feeding feed diminishes nutrition.

W. L. LARSEN, of the University of Idaho, said: "I shall not row it, and I contend that farmers are possessed of better common sense than mere theorists. Judge Peters in some things is in error. I contend that well-made June hay, if used, if properly fed, is nearly as good as any feed I know of. I do not mean to cut hay. Still I approve of shuffling all coarse hay and straw. If all farmers should feed all their cattle feed so as to save all the nutriment, it would nearly double the value of their products."

As to the value of corn, Judge Peters said that he was satisfied that corn-haul was not valuable, because no animal will eat corn in their natural state. It is just as with the woody fiber of barks of corn stalks.

P. F. NASSI—Because the horse will not eat whole corn, it is not so valuable. Oats are the favorite feed of horses. Yet a horse would not probably eat the hulls of oats if separated from the meat.

Mr. BERGEN—In this latitude horses prefer oats, and will always leave corn for oats. It is perhaps because they are more used to oats.

Dr. WATERBURY—I don't believe that woody fiber will sustain any animal. Nothing but insects can get

PROF. ROBINSON:—It is important to what food horses are accustomed to, as to what they will prefer. At the same time, it is important to what they are used to, and with the sight of oats, I assure you that a horse will have oats for corn quite as readily as he will do the reverse of that here. In some large districts the entire crop of horses is corn fed in the ear, and corn leaves, or stalks, are used in the winter. I have seen some well-bred horses, and some of the best, that would eat anything that was put before them. I find, however, very interesting and useful discrimination upon it. We can only give a slight sketch of what he said.

Winter Management of Manure.—T. W. FRIEDMAN, who has been a student of the course, says that the term manure is often misapplied. What we call manure is often a mixture of manure and other things, and he gives some good solutions. With this view a farmer can decide whether his manure is wasting. The abundance of manure does not injure the manure unless the water runs off; and until fermentation takes place so as to throw off gases, it does not waste. The first action of the solid manure or urine upon a pasture is to reduce the fertility of the soil. It is not until the manure has been made into

erient, and thoroughly mixed with the soil it is in-
tended to fertilize. Manure acts upon the soil with a
creative faculty, and in its action is somewhat like
yeast or flour. A little sets all around at work, and

1. While it may kill some plants in contact with the fermenting mass, it produces a food for others. The earthworms that feed from the swamp, sometimes kill all that the farmer intended to improve; but this does not prove that it had been properly treated and applied it would not be a valuable fertilizer.

The whole subject of manures may be stated in this region:

1. Manure does not waste so long as it is unfermented, or undried, and these conditions may be effected by drying or salting.
2. Fresh manure is unfit for food for plants.
3. Fermenting manure in contact with inert matter has the power of neutralizing various properties, such as the tartaric acid

V. The creative power of manure mixed with other substance is valuable of multiplying its value many times.
 VI. The value of manure to crops is in proportion to its fertility through the soil. The greater the farming, should be the quantity of manure thoroughly divided and intermixed with the soil.
 The Winter.—A discussion arose touching the effect of the present weather upon fruit trees.
 Judge Mares—Within my recollection we have had two Winters when the Hudson was not permanently frozen. The last winter did not appear to have had

Dr. PECK—Fourteen years ago we had no frost in the ground, and a great deal of plowing was done in January. February was a hard month, and the spring was backward.

SOLO. TOMLINSON—The Winter of 1827-8, in Cincinnati, was a very open one, and the following Summer very productive one of all tree fruits. I think next summer will be so, since there was a great growth of new wood, and that has become well ripened.

The history and value of the breed of red cattle of New-England will be one of the subjects discussed at

Philadelphia Cattle Market, JAN. 8.
The two drive yards were well supplied with Steers and cows today, the offerings having amounted to about 1,200 head, most of which was in prime order, and from Ohio and Western Territory. The market was quiet, and the prices were not very high. A few head were sold for more than \$10.00 per head. The prices ranged from \$7.50 to \$10.00.
The demand for Sheep was greater. About the supply, consequently prices ranged rather high, the offerings amounted to 250 head, and these were sold at from \$10.00 to \$12.00 each, some head at \$14.00.
Hogs.—The market was quite quiet, and sales reached to the extent of 1,000 head, at from \$10.00 to \$11.00.
Pigs.—The market was quiet, and sales reached to the extent of 250 head, at from \$10.00 to \$11.00.
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